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COMMUNITY COLLEGE  
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OCTOBER 3, 2024

# CCC School of Engineering

Doris Espiritu, PhD

Sr. Advisor to the Provost and Dean

Mark Potter, PhD

Provost

**CITY COLLEGES**  
OF CHICAGO

School of  
Engineering



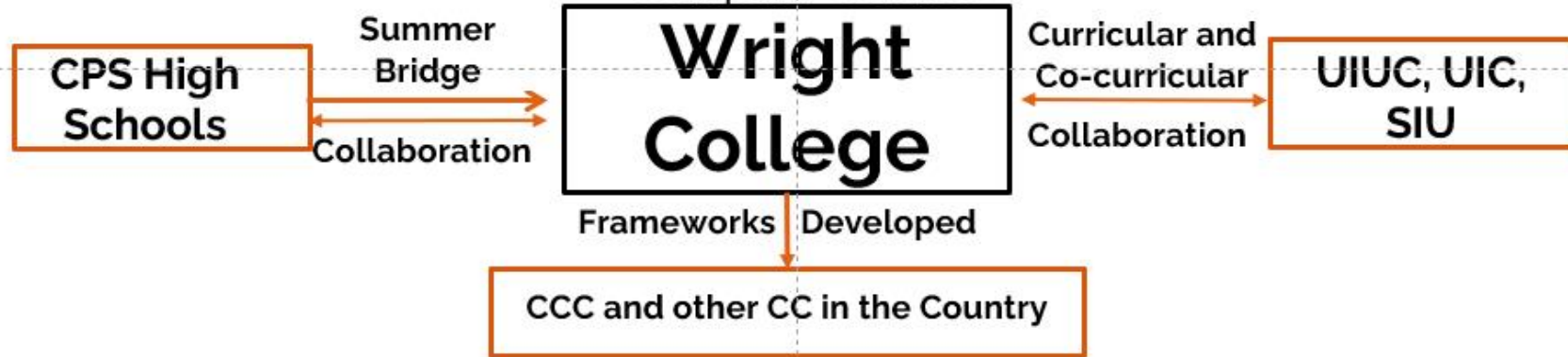
# NSF-HSI: Building Bridges into Engineering & Computer Science



Principal Investigator  
*Doris J. Espiritu*

**\$1.43 M 5-year Research Grant Award**

Goal: Increase enrollment, retention, transfer and graduation rates of underrepresented, underprepared, and/or low-income students in Engineering and Computer Science



Direct Benefit: 360 diverse students in 5 years

Indirect Benefit: A model that can be replicated to increase the diversity of the Engineering and Computer Science workforce nationally

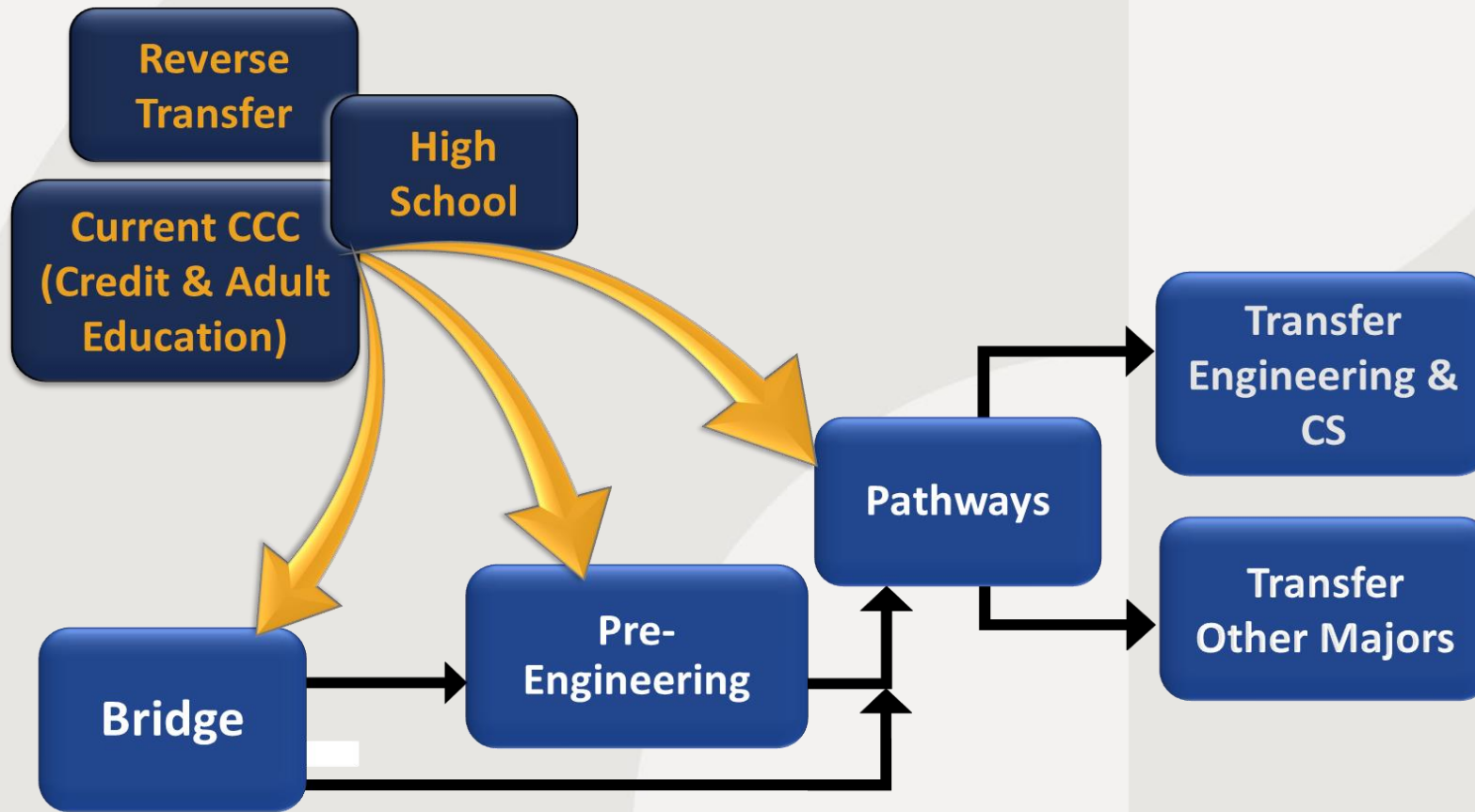
**December 2018  
Presentation to CCC  
Board**

**Goals:**

- 1) 360 diverse students
- 2) Develop a model at Wright College



# The Model



1. Contextualized Bridge
2. Holistic and Programmatic Approach for Transfer (HPAT)
3. Multidimensional Approach First Year Experience

Community of Practice (CoP)

Belonging

Self-Efficacy

# Key Milestones

**2015 Pilot  
(9 students)**

**2018 Launch  
(Pre-NSF)**

**2019 First Bridge  
IIT GAP Launch**

**2020-CCC COE  
Designation**

- In 2015, Wright College piloted a selective guaranteed admission program to The Grainger College of Engineering at UIUC – Engineering Pathways
- In 2018, obtained the NSF HSI research grant “Building Bridges into Engineering and Computer Science”
- In 2019, Offered the 1st Engineering Bridge with 32 participants and Launched the Illinois Tech Guaranteed Admission Program (GAP)
- In 2020, Wright College became CCC’s Center of Excellence for Engineering and CS due to the frameworks developed through the NSF funded grant.



# Contextualized Bridge

Year	2019	2020	2021	2022	2023	2024	Total
Participants	32	50	53	67	103	126	431
Completers	31	46	50	63	100	120	410



Pre-NSF 2016 Cohort

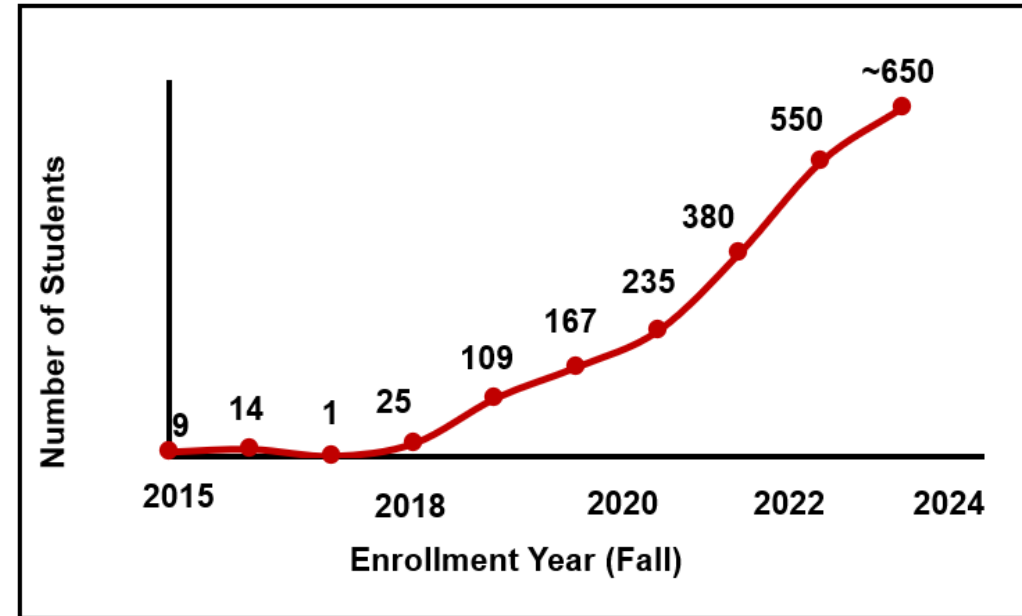


NSF-2019 Cohort (1<sup>st</sup> Bridge)

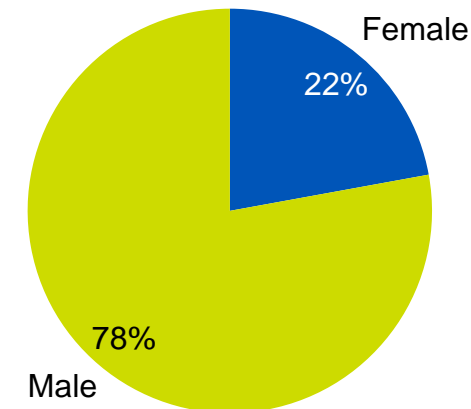
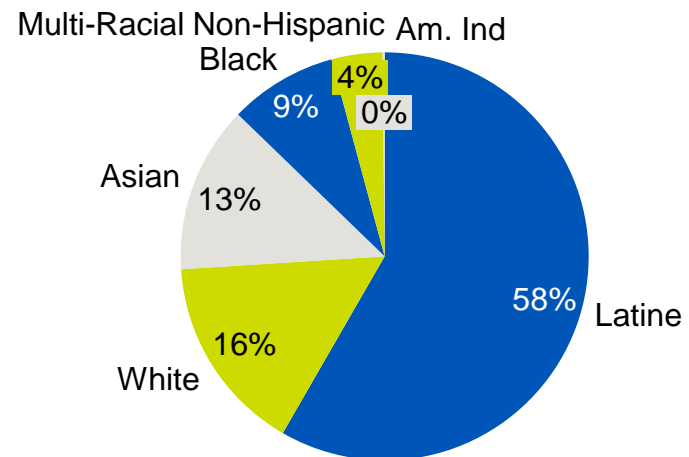


2024 Cohort (6<sup>th</sup> Bridge)

# Program Enrollment



## Student Demographics (FY24)



## Today

- Approximately 400 alumni
- Many alumni who completed Spring 2022 are now engineers in industry or graduate school



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Fall 2024 CCC-  
School of  
Engineering launch

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- May 2024: CCC Engineering Alumni Organized
- **October 2024: School of Engineering and CCC-UIUC Engineering Access Alliance Launch**
- In Fall 2025: Pilot the CCC School of Engineering at HW, Truman 2<sup>nd</sup> phase: DA and OH

# Introducing the City Colleges of Chicago School of Engineering

**Mission and Vision:** The CCC School of Engineering strives to become the nation's premier community college pipeline for producing diverse engineering leaders who will be of service to Chicago, the nation and the world. We challenge the traditional model of high-cost education by offering affordable, accessible, and high-quality programs with the rigor and standards aligned with our partner institutions. We empower our students to excel academically and professionally, fostering a new generation of engineers committed to innovation, equity and service.

## Goals

Goal: total 360 students  
+ a model

**WILBUR WRIGHT COLLEGE** | CENTER OF EXCELLENCE  
CITY COLLEGES OF CHICAGO | Engineering and  
Computer Science

**Actual (6 years)**  
**1,168 total**  
**students**

**2,030** Associates degrees  
and 2,030 total enrollment

**CITY COLLEGES<sup>®</sup>**  
OF CHICAGO  
**School of Engineering**

**Wilbur Wright**  
**Harry Truman**  
**Harold Washington**

**Daley**  
**Olive-Harvey**

**2019-2024**

**2025-2030**



Semesters	Number of students transferred
F2020 & S2021	41
F2021 & S2022	61
F2022 & S2023	72
F2023 & S2024	82
F2024 & S2025*	120

# Transfer

Intentional transfer pathways in Engineering and CS  
Guaranteed admission, aligned curriculum and co-advising



**The Grainger College of Engineering**  
**University of Illinois at Urbana-Champaign**



**Armour College of Engineering**  
**College of Computing**  
**Stuart College of Business**  
**Illinois Tech**



**University of Illinois at Chicago**  
**TAG Program (CS + Engineering)**

+ Other 4-year transfer institutions (University of Michigan, Northwestern, Columbia, Loyola, DePaul, etc.)

# CCC-UIUC Engineering Access Alliance

An intentional partnership between CCC School of Engineering and The Grainger College of Engineering

## Features and Benefits:

- Guaranteed Admission to the Grainger College of Engineering
- Dual-admission
- Co-advising
- Scholarships
- Research opportunities at UIUC
- Early Exploration Program
- Co-recruiting
- Co-branding
- Access to internships
- Co-fundraising
- Increase capacity



# Next Steps



- 1) Informational sessions will be held in the coming weeks to share more details, including how to apply
- 2) We will be accepting students for fall term at Wright, Truman and Harold Washington College
- 3) Application will be available January 2025

For more information, go to:

[www.ccc.edu/Engineering](http://www.ccc.edu/Engineering)

Thank you

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